

VideOh! CD AVC-1100

User's Guide

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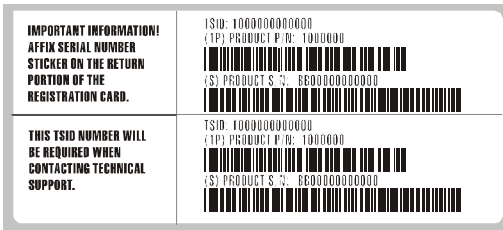
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- Before contacting Technical Support, you need your unique 12-digit TSID number. The TSID number identifies your product and support status.
- The TSID number is included on two white, bar-coded labels, like the example below. Affix your TSID label to the printed *Installation Guide*.



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- Search the Adaptec Support Knowledgebase (ASK) at ask.adaptec.com for articles, troubleshooting tips, and frequently asked questions for your product.
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- To order Adaptec products, including accessories and cables, call +1 408-957-7274. Or, you can order cables online at www.adaptec.com/buy-cables.

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Regulatory Compliance Statements

Federal Communications Commission Radio Frequency Interference Statement

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. However, if this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.
- Use a shielded and properly grounded I/O cable and power cable to ensure compliance of this unit to the specified limits of the rules.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.



European Union Compliance Statement

This Information Technology Equipment has been tested and found to comply with EMC Directive 89/336/EEC, as amended by 92/31/EEC and 93/68/EEC, in accordance with:

- EN55022 (1998) Emissions
- EN55024 (1998) Immunity:
 - EN61000-4-2 (1998) Electrostatic discharge: ± 4 kV contact, ± 8 kV air
 - EN61000-4-3 (1998) Radiated immunity
 - EN61000-4-4 (1995) Electrical fast transients/burst: ± 1 kV AC, ± 0.5 kV I/O
 - EN61000-4-5 (1995) Surges ± 1 kV differential mode, ± 2 kV common mode
 - EN61000-4-6 (1996) Conducted immunity: 3 V
 - EN61000-4-11 (1994) Supply dips and variation: 30% and 100%

In addition, all equipment requiring U.L. listing has been found to comply with EMC Directive 73/23/EEC as amended by 93/68/EEC in accordance with EN60950 with amendments A1, A2, A3, A4, A11.



Australian/New Zealand Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Spectrum Management Agency.



Canadian Compliance Statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



Japanese Compliance (Voluntary Control Council Initiative)

This equipment complies to class B Information Technology equipment based on VCCI (Voluntary Control Council for Interface). This equipment is designed for home use but it may causes radio frequency interference problem if used too near to a television or radio. Please handle it correctly per this documentation.

In this Guide

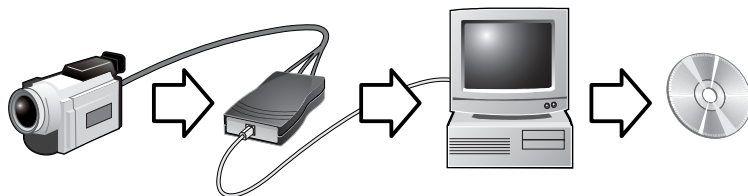
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Introduction

Congratulations on the purchase of your Adaptec VideOh! CD AVC-1100. With your VideOh! CD kit, you can convert your analog videos into digital format and create your own Video CDs (VCDs):

- Capture your favorite video footage with your AVC-1100 and the Adaptec AV Capture software.



- Organize and burn VCDs with Sonic[®] MyDVD[®] software, which also helps you add backgrounds to your videos and menus for easy navigation.
- Edit your videos with the digital video editing tool integrated with MyDVD, if you want to add music, transitions, and titles to your movies.

This *User's Guide* tells you how to set up your VideOh! CD hardware, and provides detailed instructions for installing and using the VideOh! CD software.

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What's in the Package

Your Adaptec VideOh! CD kit includes:

- Adaptec AVC-1100 USB video capture device
- 6-foot USB cable
- 6-inch L-R RCA audio Y cable
- CD, including drivers, Sonic MyDVD, and Adaptec AV Capture software
- *VideOh! CD AVC-1100 Installation Guide*

System Requirements

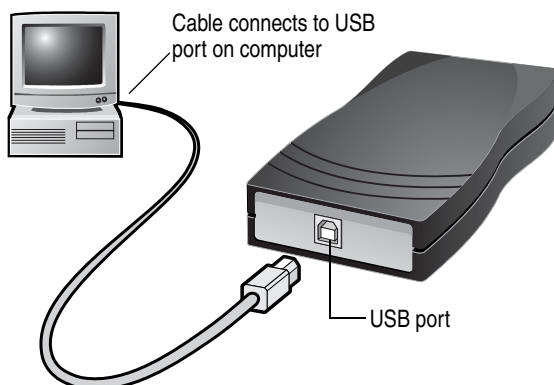
To use your VideOh! CD kit, you need a PC-compatible computer with:

- Intel Pentium II 400 MHz (or faster) processor (800 MHz recommended)
- Windows® 98SE, Windows Me®, Windows 2000®, or Windows XP®
- 64 MB RAM minimum (128 MB recommended)
- 250 MB free disk space for applications
- 450 MB free disk space per 10 minutes of captured video
- Sound card
- Available USB port
- CD-ROM drive
- CD-Recorder or DVD-Recorder for output
- Video card and monitor that support 16-bit color at 1024 x 768 resolution (24/32-bit color and higher resolution recommended)

Plugging In

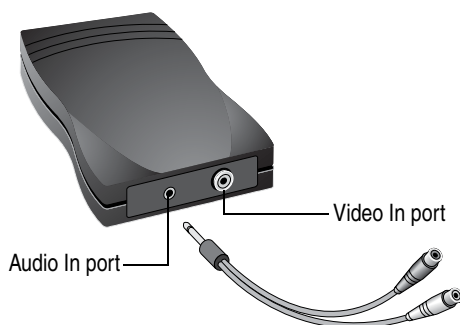
To set up your AVC-1100:

- 1 Connect your AVC-1100 to your computer, using the 6-foot USB cable.



Note: Adaptec *highly* recommends that you connect directly to your computer, and not through a USB hub.

- 2 If required, insert the L-R RCA audio Y cable into the Audio In port.



- 3 Plug one end of your camcorder cable into the Audio In and Video In ports of your AVC-1100, using the Y cable if required. Plug the other end into your analog video device.



Note: To ensure that your videos are captured successfully, unplug any extraneous USB devices you may have connected to your computer.

Installing the Drivers

Before you can begin capturing video, you must install the VideOh! CD device drivers.

Because three drivers must be installed, these instructions lead you through the installation procedure more than once. Follow the complete set of installation instructions provided for your operating system to ensure that all drivers are properly installed:

- For Windows XP, see [page 6](#).
- For Windows 2000, see [page 9](#).
- For Windows Me, see [page 14](#).
- For Windows 98SE, see [page 18](#).

Windows XP

When you plug in your AVC-1100, Windows XP automatically detects it and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.

During the installation process, the Video Capture driver is installed first and the Audio Capture driver is installed next. You won't see the Composite Device driver being installed. To ensure that all three drivers are installed properly, follow the instructions provided in [Double-Checking Driver Installation on page 8](#).

To install the drivers:

- 1 Insert the CD from your VideOh! CD kit into your CD-ROM drive.



Note: If the VideOh! software installation screen appears, exit this screen until driver installation is complete.

- 2 In the Found New Hardware Wizard, select **Install the software automatically...**, then click **Next**.

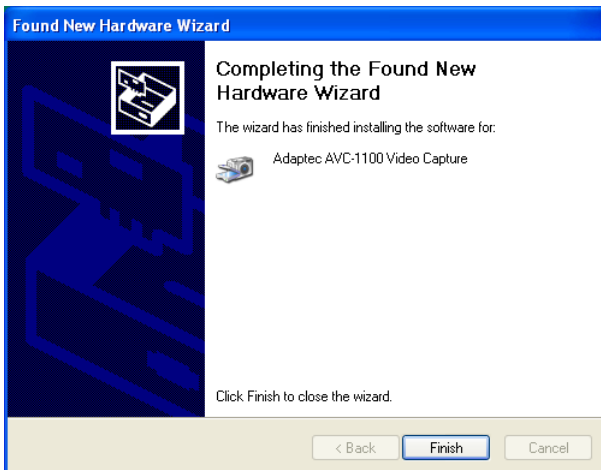


3 Click **Continue Anyway**.



Windows installs the driver.

4 Click **Finish**.



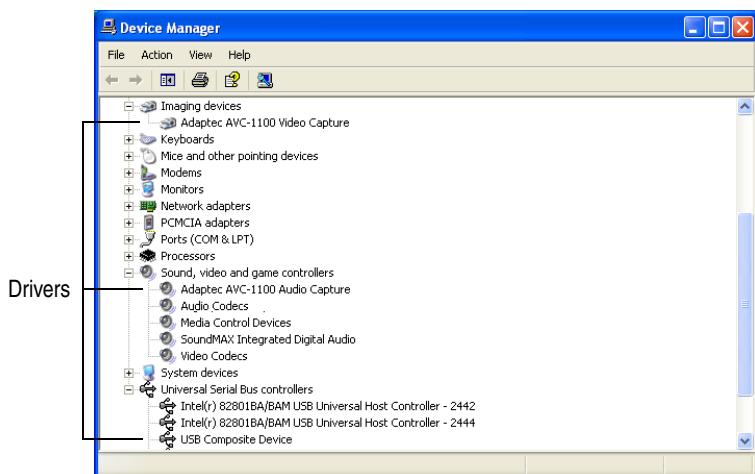
The Found New Hardware Wizard appears.

5 Repeat [Step 2](#) through [Step 4](#) to complete the installation.

Double-Checking Driver Installation

To ensure that the driver has installed properly on your Windows XP system:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**. The System Properties window opens.
- 2 Open **Device Manager**, and check in three places:
 - Click **Imaging devices**. Adaptec AVC-1100 Video Capture should be listed.
 - Click **Sound, video, and game controllers**. Adaptec AVC-1100 Audio Capture should be listed.
 - Click **Universal Serial Bus controllers**. USB Composite Device should be listed.



If any or all of these drivers don't appear, refer to [Troubleshooting Your AVC-1100](#) on page 31.

Windows 2000

When you plug in your AVC-1100, Windows 2000 automatically detects it and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.

During the installation process, the Audio Capture driver is installed first and the Video Capture driver is installed next. You won't see the Composite Device driver being installed. To ensure that all three drivers are installed properly, follow the instructions provided in [Double-Checking Driver Installation on page 13](#).

To install the drivers:

- 1 Insert the CD from your VideOh! CD kit into your CD-ROM drive.



Note: If the VideOh! software installation screen appears, exit this screen until driver installation is complete.

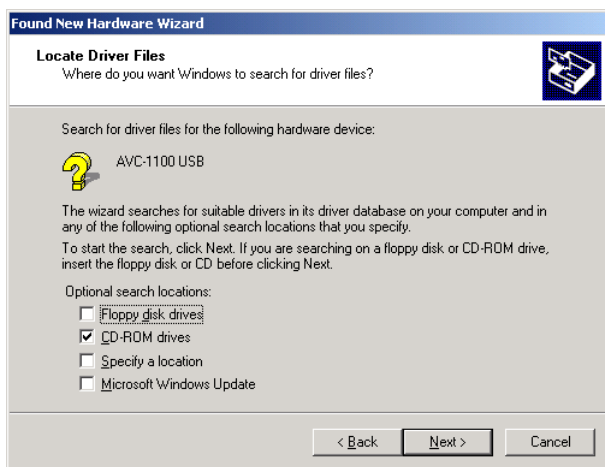
- 2 In the Found New Hardware Wizard, click **Next**.



3 Select **Search for a suitable driver...**, then click **Next**.

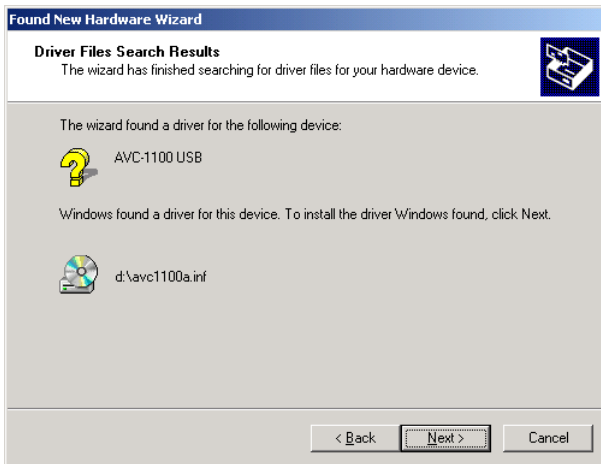


4 Select **only** CD-ROM drives, then click **Next**.



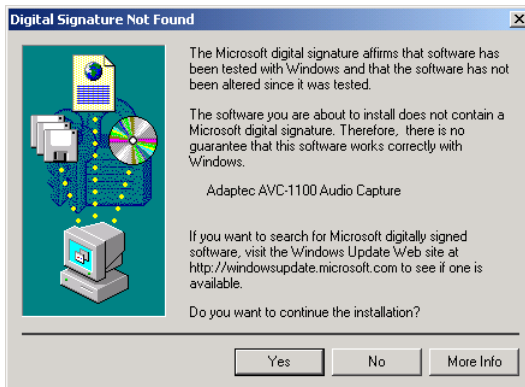
Windows locates a driver file.

5 Click Next.



Note: The drive letter for your CD-ROM may be different than the one shown in the example above. The Audio Capture driver file name is `avc1100a.inf`. The Video Capture driver file name is `avc1100v.inf`.

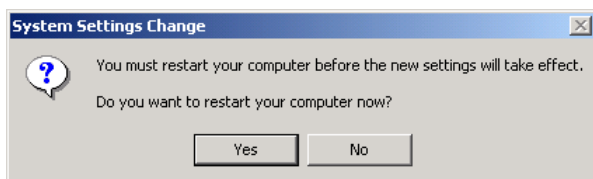
6 Click Yes.



7 Click Finish.



8 Click No.



The Found New Hardware Wizard appears.

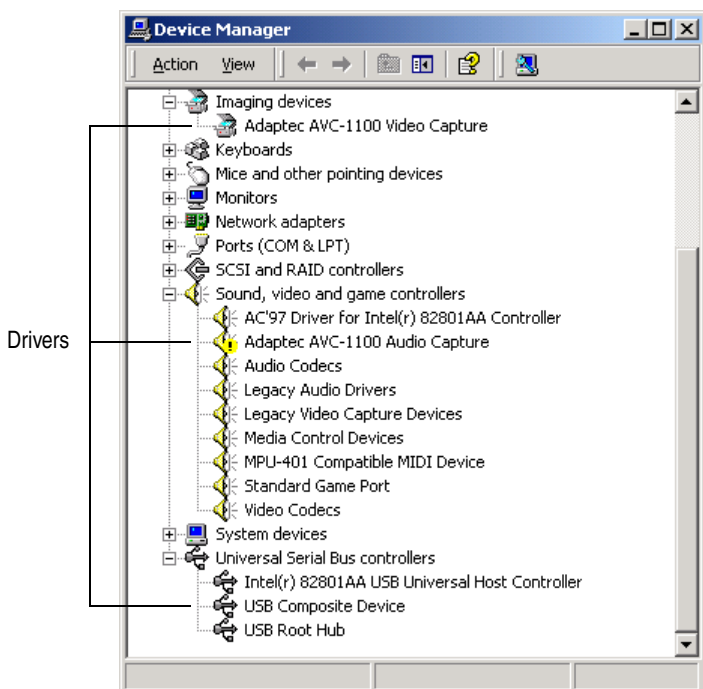
9 Repeat [Step 2](#) through [Step 7](#) to complete the installation.

10 When the installation is complete, restart your computer.

Double-Checking Driver Installation

To ensure that the driver has installed properly on your Windows 2000 system:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**. The System Properties window opens.
- 2 Open **Device Manager**, and check in three places:
 - Click **Imaging devices**. Adaptec AVC-1100 Video Capture should be listed.
 - Click **Sound, video, and game controllers**. Adaptec AVC-1100 Audio Capture should be listed.
 - Click **Universal Serial Bus controllers**. USB Composite Device should be listed.



If any or all of these drivers don't appear, refer to [Troubleshooting Your AVC-1100](#) on page 31.

Windows Me

When you plug in your AVC-1100, Windows Me automatically detects it and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.

During the installation process, the Video Capture driver is installed first and the Audio Capture driver is installed next. You won't see the Composite Device driver being installed. To ensure that all three drivers are installed properly, follow the instructions provided in [Double-Checking Driver Installation on page 17](#).

To install the drivers:

- 1 Insert the CD from your VideOh! CD kit into your CD-ROM drive.

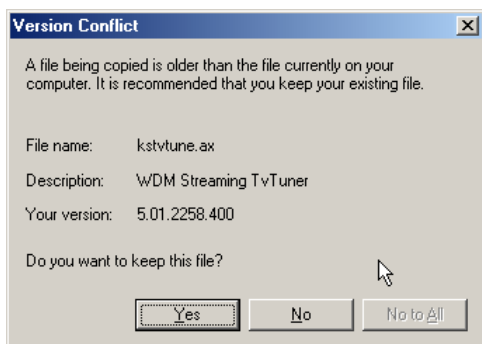


Note: If the VideOh! software installation screen appears, exit this screen until driver installation is complete.

- 2 In the Found New Hardware Wizard, click **Next**.
- 3 Select **Automatic search...**, then click **Next**.



- 4 Your computer may generate up to four Version Conflict messages in a row. (This is common, especially if you have previously installed these drivers on your computer.) If a Version Conflict message appears, click **Yes** to continue with the installation.



- 5 Click **Finish**.



The Found New Hardware Wizard appears.

- 6 Click **Next**.

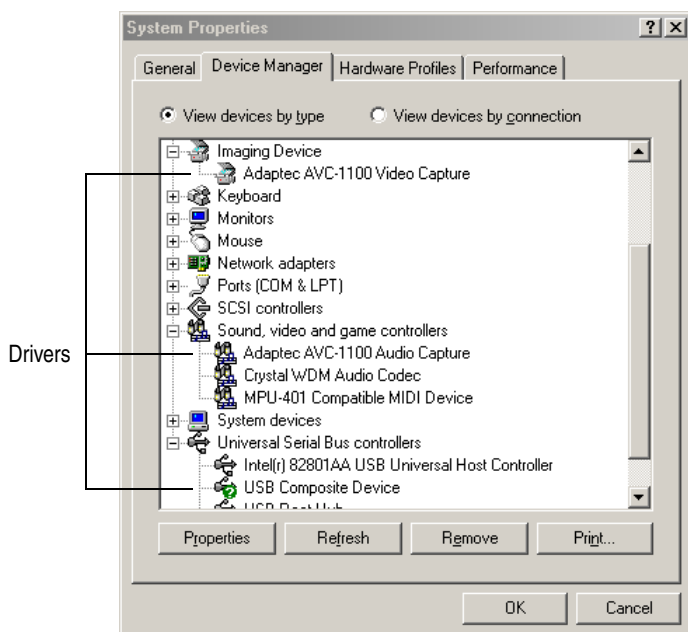
- Click **Finish** to complete the installation.



Double-Checking Driver Installation

To ensure that the driver has installed properly on your Windows Me system:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**. The System Properties window opens.
- 2 Open **Device Manager**, select **View devices by type**, and check in three places:
 - Click **Imaging Device**. Adaptec AVC-1100 Video Capture should be listed.
 - Click **Sound, video, and game controllers**. Adaptec AVC-1100 Audio Capture should be listed.
 - Click **Universal Serial Bus controllers**. USB Composite Device should be listed.



If any or all of these drivers don't appear, refer to [Troubleshooting Your AVC-1100](#) on page 31.

Windows 98SE

When you plug in your AVC-1100, Windows 98SE automatically detects it and opens the Found New Hardware Wizard. To perform the installation, follow the instructions provided in this section.

During the installation process, the Composite Device driver is installed first, the Audio Capture driver is installed next, and the Video Capture driver is installed last. To ensure that all three drivers are installed properly, follow the instructions provided in [Double-Checking Driver Installation on page 21](#).



Note: You may need your Windows 98SE CD to complete the installation.

To install the drivers:

- 1 Insert the CD from your VideOh! CD kit into your CD-ROM drive.



Note: If the VideOh! software installation screen appears, exit this screen until driver installation is complete.

- 2 In the Found New Hardware Wizard, click **Next**.
- 3 Select **Search for best driver...**, then click **Next**.



- 4 Select *only* CD-ROM drive, then click **Next**.



- 5 Click **Next**.



Note: The drive letter for your CD-ROM may be different than the one shown in the example above. Also, as you repeat the installation procedure for the other two drivers, driver file names different from the one shown above will appear.

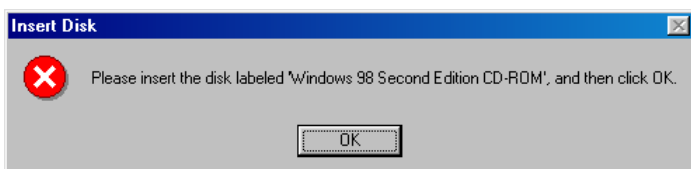
6 Click Finish.



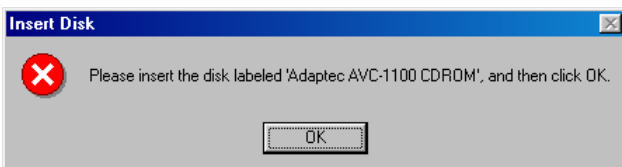
The Found New Hardware Wizard appears.

7 Repeat [Step 2](#) through [Step 5](#).

8 Insert your Windows 98SE CD, then click **OK.**



9 Insert your VideOh! CD, then click **OK.**



10 Click **Finish.**

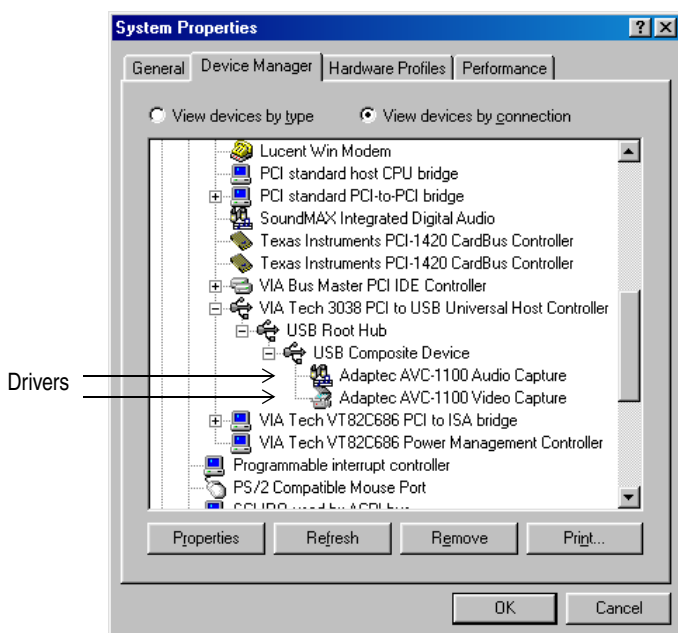
The Found New Hardware Wizard appears.

11 Repeat [Step 2](#) through [Step 6](#) to complete the installation.

Double-Checking Driver Installation

To ensure that the driver has installed properly on your Windows 98SE system:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**. The System Properties window opens.
- 2 Open **Device Manager**, and select **View devices by connection**.
- 3 Click **Advanced Configuration and Power Interface (ACPI) BIOS**, click **PCI Bus**, click **Universal Host Controller**, and then click **USB Root Hub**. Click **USB Composite Device**. Adaptec AVC-1100 Audio Capture and Adaptec AVC-1100 Video Capture should be listed.



If any or all of these drivers don't appear, refer to [Troubleshooting Your AVC-1100](#) on page 31.

Installing the VideOh! CD Software

To install MyDVD:

Insert the CD from your VideOh! CD kit into your CD-ROM drive and follow the on-screen instructions.

If the CD is already in your CD-ROM drive, reinsert it to activate the software installation screen.

Using Your VideOh! CD

Your VideOh! CD package includes software tools to help you capture your videos in digital format, edit them, and create VCDs.

- Use Adaptec AV Capture to transfer your videos onto your computer in digital format. See [Using Adaptec AV Capture on page 24](#) for detailed instructions for using this application.
- Use Sonic MyDVD to create VCDs. MyDVD helps you organize your digital videos, and add backgrounds and a menu navigation system.



Note: Although there is a Capture button in MyDVD, the capture function is not available for the AVC-1100. Please use AV Capture to transfer your videos to your computer, then open MyDVD and import the saved files using the Get Movies button.

Refer to the online documentation included with MyDVD and the video editing tool for help using this software application.

- When you install MyDVD, a video editing application is also installed. Use this tool to edit your digital videos and add music, transitions, and titles.

Refer to the online documentation included with MyDVD and the video editing tool for help using this software application.



Note: Although MyDVD offers the option of creating DVDs, Adaptec recommends that you use VideOh! CD to create VCDs only. Because your AVC-1100 captures your video in the lower-resolution MPEG-I format, DVDs created with this product will not have true DVD quality.

Using Adaptec AV Capture

Use Adaptec AV Capture (shown in the example below) to transfer your videos to your computer's hard drive.



This section provides simple instructions on how to use AV Capture:

- To start AV Capture, see [page 25](#).
- To preview your video, see [page 25](#).
- To capture a video, see [page 26](#).
- To stop a video capture, see [page 27](#).
- To restart a video capture, see [page 27](#).
- To take a snapshot from your analog video, see [page 27](#).
- To change the video capture format, see [page 28](#).
- To change the audio capture setting, see [page 29](#).
- To change the capture time limit, see [page 29](#).
- To check on other capture settings, see [page 30](#).

Getting Started

To start using AV Capture:

- 1 Power on your computer, plug in your AVC-1100 (see [page 4](#)) and turn on your analog video device. Ensure that the video you want to capture is in the device.
- 2 Open Adaptec AV Capture.

Previewing Your Video

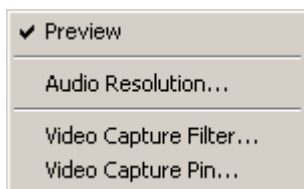
You can use AV Capture to play your video on your computer monitor.

You can use this feature to preview your video before you start a capture, monitor the video as it's being captured, or take snapshots from your video. (See [Taking a Snapshot on page 27](#) for more information.)

To play your video using AV Capture:

- 1 Open the **Capture** menu.

The Preview menu item specifies whether or not the Preview feature is activated. Preview has two settings: on and off. A checkmark appears beside Preview when the feature is on (as shown in the example below).



- 2 If the Preview feature is off, select **Preview** to turn it on.
- 3 Start your video tape.



Note: With Preview turned on, while you're capturing video you can view the picture on AV Capture but the sound is muted. See [Capturing Video on page 26](#) for more information.

Capturing Video



Caution: To ensure that your videos are captured successfully, unplug any extraneous USB devices you may have connected to your computer and *close all other applications* before you begin to capture video.

To capture a video:

- 1 In the File menu, select **Set Capture File/Pathname**.
- 2 Select the folder you want to save your video to, specify a file name, then click **OK**.
- 3 Start your video tape, and check that your computer is receiving good input.
- 4 In the Capture menu, select **Start Capture**.

A message appears, asking you if you wish to overwrite the selected file.

- 5 Click **Yes**.

Your video is transferred to your computer.



Note: With Preview turned on, while you're capturing video you can view the picture on AV Capture but the sound is muted. (See [page 25](#) for information about the Preview feature.) Once the capture is complete, the video plays back with both picture and sound (unless you have chosen not to capture the audio portion of your analog video — see [Changing the Audio Capture Setting on page 29](#) for audio capture information).

Stopping Video Capture

You can stop a video capture at any time during the capture process. When you stop a capture, the video transferred up until that point will be saved to the file.



Note: The AV Capture software doesn't control your analog video device. When you stop a capture, your video tape will continue to play unless you stop it using the device's onboard controls.

To stop a video capture:

- 1 In the File menu, select **Stop Capture**. (The video captured until the stop point will be saved.)
- 2 Press the **Stop** or **Pause** button on your analog video device.

Restarting a Video Capture After a Stop Capture

To restart a capture:

- 1 Rewind your video tape to the beginning of your chosen clip. AV Capture can't continue a capture, or add on to an existing capture file.
- 2 Follow the instructions provided in [Capturing Video on page 26](#).

Taking a Snapshot

You can capture a single image as a still photograph by taking a snapshot from your video.

To take a snapshot:

- 1 In the File menu, select **Save Snapshot Image As....**
- 2 Select the folder you want to save your snapshot to, specify a file name, then click **OK**.
- 3 Ensure that the Preview feature is turned on. See [Previewing Your Video on page 25](#) for instructions.
- 4 Start your video tape.
- 5 In the Capture menu, select **Snapshot** to capture a single frame.

The snapshot is saved. You may want to try more than once to get exactly the snapshot you desire. You can overwrite the same file name each time.

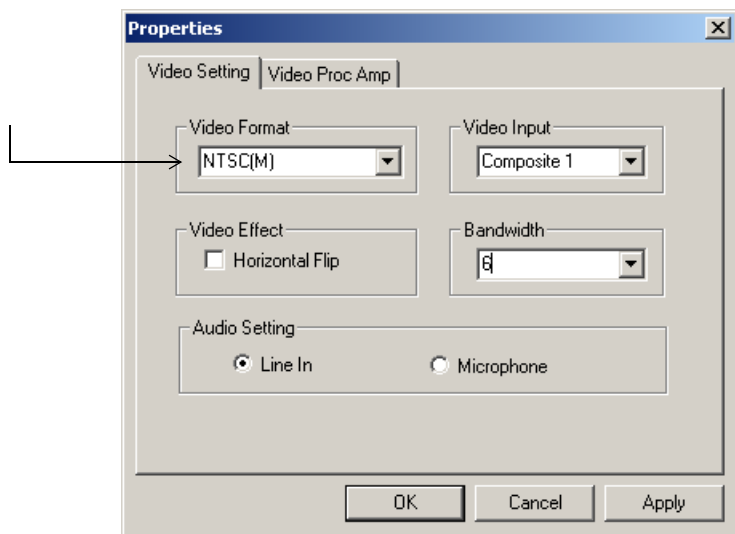
Changing the Video Format

You may need to change the video capture format setting, depending on where you live in the world:

- In Japan and North America, your video capture format should be set to NTSC(M).
- In Europe, your video capture format should be set to PAL.

To change the video capture format:

- 1 In the Options menu, select **Video Capture Filter**.
- 2 In the Properties window, click the **Video Setting** tab.
- 3 In the **Video Format** drop-down menu (shown by the arrow below), select the appropriate video capture format, then click **OK**.



Adaptec *strongly recommends* that you do not change any other setting in this window.

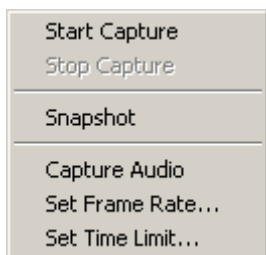
Changing the Audio Capture Setting

You can choose whether or not sound is captured with your video clip.

To adjust the audio capture setting:

- 1 Open the **Capture** menu.

The Capture Audio menu item specifies whether or not audio is captured. Capture Audio has two settings: on and off. A checkmark appears beside Capture Audio when the feature is on. (In the example below, the Capture Audio is turned off.)



- 2 Select **Capture Audio** to turn the feature on or off.

Changing the Capture Time Limit

By default, AV Capture digitizes your videos in 10-minute increments. On a wide variety of systems, this produces video captures with good audio and video synchronization.

However, if you have a fast system and are careful to close all other applications before starting a capture, you can increase the capture time to find the limits of your system for audio and video synchronization.

To change the capture time limit:

- 1 In the Capture menu, select **Set Time Limit**.
- 2 In the Capture Time Limit dialog box, adjust the time (in seconds) as required, then click **OK**.



Note: If you increase the capture time, check the audio and video synchronization near the end of the capture file in Windows Media Player before sending it to MyDVD to be written to VCD.

Checking Other Capture Settings

The option settings in AV Capture have been set to maximize the performance of your AVC-1100. Adaptec *strongly recommends* that you do not change the default settings for any of these options.

If you wish to view the options settings, follow the steps provided in this section.

Checking the Audio Resolution

This setting specifies the resolution of incoming audio. By default, the AVC-1100 is set to capture CD quality audio. You can check the audio resolution setting by selecting **Audio Resolution** on the Options menu.

Checking the Video Output Format

In the Options menu, select **Video Capture Pin** to view the settings for video output.

Checking the Frame Rate

In the Capture menu, select **Set Frame Rate** to view the frame rate setting.

Registering Your AVC-1100

To ensure your eligibility for support and upgrades, and to qualify for future promotions, please register your AVC-1100 on the Adaptec website at register.adaptec.com.

Troubleshooting Your AVC-1100

If you encounter difficulties installing or using your AVC-1100, follow these suggestions:

- Ensure that your analog video device is connected, powered on, and set up to provide a video signal to the AVC-1100.
- Double-check all cable connections.
- Try connecting to a different USB port on your system.
- If your AVC-1100 is connected to a USB hub, try connecting it directly to a system USB port. (Adaptec *highly* recommends that you connect directly to your computer, and not through a USB hub.)
- Ensure that the AVC-1100 is connected properly and that the drivers have installed correctly. (See [Installing the Drivers on page 5](#) to find detailed instructions.)

Technical Specifications

Technology	USB 1.1
Video Input	Composite (RCA)
Video Capture Format	Compressed AVI
Video Standards	NTSC and PAL
Audio Input	3.5 mm Stereo Jack
PC Interface	USB 1.1 Connector
Form Factor	2.8" (L) x 4" (W) x 0.9" (H)
Power	3.3 V, supplied by USB
Regulatory Certifications	FCC Class B, CE Class B (See page viii for more information.)



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